

cPCI-7432/7433/7434

64-CH Isolated Digital I/O Modules

Features

- 3U Eurocard form factor, CompactPCI compliant (PICMG 2.0 R2.1)
- Isolated Digital I/O
 - • 32-CH isolated digital inputs and 32-CH isolated digital outputs (cPCI-7432, cPCI-7432R and cPCI-7432RP)
 - • 64-CH isolated digital inputs (cPCI-7433 and cPCI-7433R)
 - • 64-CH isolated digital outputs (cPCI-7434, cPCI-7434R, cPCI-7434P and cPCI-7434RP)
- Non-polarity digital input range (cPCI-7432, cPCI-7432R, cPCI-7432RP, cPCI-7433 and cPCI-7433R)
- Isolated input voltage up to 24 V (cPCI-7432, cPCI-7432R, cPCI-7432RP, cPCI-7433 and cPCI-7433R)
- Isolation Voltage
 - • 5000 VRMS (cPCI-7432, cPCI-7433, cPCI-7434, cPCI-7434R, cPCI-7434P, cPCI-7434RP)
 - • 2500 VRMS (cPCI-7432R, cPCI-7432RP, cPCI-7433R)
- Sink current up to 500mA on each isolated output
- Two external interrupt sources (cPCI-7432, cPCI-7432R, cPCI-7432RP, cPCI-7433 & cPCI-7433R)

Operating Systems

- • Windows 2000/NT/XP/9x
- • DOS
- • Red Hat Linux
- • Windows CE (call for availability)

Recommended Software

- • VB/VC++/BCB/Delphi
- • DAQBench

Driver Support

- • PCIS-DASK for Windows 2000/NT/XP/9x
- • PCIS-DASK/X for Red Hat Linux
- • PCIS-OCX ActiveX controls
- • PCIS-LVIEW/PnP **NEW!**



cPCI-7432R

Introduction

The ADLINK cPCI-743X series cards are 64-CH high-density digital input and/or output cards. They provide a robust 2,500 VRMS isolation protection which is suitable for most industrial applications. The wide input range of the cPCI-7432 series and cPCI-7433 series makes it easy to sense the status of external devices. The cPCI-7432 series and cPCI-7434 series feature a wide output range from 5 to 35 V, suitable for relay driving and industrial automation applications. The cPCI-7432, cPCI-7432R, cPCI-7434, cPCI-7434R provide sink drive output type while the cPCI-7432RP, cPCI-7434P and cPCI-7434RP provide source drive output type. The cPCI-7432 series and cPCI-7433 series also provide two interrupt sources on digital input channels, which are easily user configurable.

Specifications

Isolated Digital Input

- Number of channels
 - • 32 (cPCI-7432, cPCI-7432R and cPCI-7432RP)
 - • 64 (cPCI-7433 and cPCI-7433R)
- Maximum input range (Non-polarity) 24 V, non-polarity (cPCI-7432, cPCI-7432R, cPCI-7432RP, cPCI-7433 & cPCI-7433R)
- Digital logic levels
 - 0-24 V, non-polarity (cPCI-7432, cPCI-7432R, cPCI-7432RP, cPCI-7433 & cPCI-7433R)
 - • Input high voltage: 5-24 V
 - • Input low voltage: 0-1.5 V
- Input resistance
 - 2.4 kΩ @ 0.5 W (cPCI-7432, cPCI-7432R, cPCI-7432RP, cPCI-7433 & cPCI-7433R)
- Isolation voltage
 - • 2500 VRMS (cPCI-7432R, cPCI-7432RP, cPCI-7433R)
 - • 5000 VRMS (cPCI-7432, cPCI-7433, cPCI-7434, cPCI-7434R, cPCI-7434P, cPCI-7434RP)
- Interrupt sources: digital input channel 0 and 1
- Data transfers: programmed I/O

Isolated Digital Output

- Number of channels
 - • 32 (cPCI-7432, cPCI-7432R, cPCI-7432RP)
 - • 64 (cPCI-7434, cPCI-7434R, cPCI-7434P, cPCI-7434RP)
- Output type
 - • Darlington sink driver (cPCI-7432, cPCI-7432R, cPCI-7434, cPCI-7434R)
 - • Darlington source driver (cPCI-7432RP, cPCI-7434P, cPCI-7434RP)
- Sink current (cPCI-7432, cPCI-7432R, cPCI-7434, cPCI-7434R)
 - • 500 mA for one channel @ 100% duty
 - • 500 mA for all channels @ 20% duty

- Source current (cPCI-7432RP, cPCI-7434P, cPCI-7434RP)
 - • 260 mA for all channels @ 10% duty
 - • 59 mA for all channels @ 50% duty
- Power dissipation
 - • Max. 2.25 W per chip (8 DO channels, cPCI-7432, cPCI-7432R, cPCI-7434, cPCI-7434R)
 - • Max. 1.47 W per chip (8 DO channels, cPCI-7432RP, cPCI-7434P, cPCI-7434RP)
- Supply voltage: 5-35 V
- Isolation voltage
 - • 2500 VRMS (cPCI-7432R, cPCI-7432RP)
 - • 5000 VRMS (cPCI-7434R, cPCI-7434P, cPCI-7434RP)
- Data transfer: programmed I/O

General Specifications

- I/O connector: 100-pin SCSI-II female
- Operating temperature: 0 to 60 °C
- Storage temperature: -20 to 80 °C
- Relative humidity: 5 to 95 %, noncondensing
- Power requirements

Device	+5 V
cPCI-7432 cPCI-7432R cPCI-7432RP	530 mA typical
cPCI-7433 cPCI-7433R	500 mA typical
cPCI-7434 cPCI-7434R cPCI-7434P cPCI-7434RP	560 mA typical

- Dimensions (not including connectors) 160 mm x 100 mm

Termination Boards

DIN-100S

Termination Board with a 100-pin SCSI-II Connector and DIN-Rail Mounting (Including One 1-meter ACL-102100 Cable)

DIN-502S

Two Pieces of DIN-50S Termination Board (Including One 1-meter ACL-10252 Cable)

Ordering Information

- **cPCI-7432**
32-CH Isolated DI & 32-CH Isolated DO Card
- **cPCI-7432R**
32-CH Isolated DI & 32-CH Isolated DO Card with Rear I/O
- **cPCI-7432RP**
cPCI-7432 with Rear I/O & Source Current Transistor
- **cPCI-7433**
64-CH Isolated DI Card
- **cPCI-7433R**
64-CH Isolated DI Card with Rear I/O
- **cPCI-7434**
64-CH Isolated DO Card
- **cPCI-7434R**
64-CH Isolated DO Card with Rear I/O
- **cPCI-7434P**
64-CH Isolated DO Card with Source Current Transistor
- **cPCI-7434RP**
cPCI-7434 with Rear I/O & Source Current Transistor